## **ENVIRONMENTAL CHEMISTS**

Date of Report: 09/05/02 Date Received: 08/15/02

Project: Metro Self Monitor Grab, PO# M88856

Date Extracted: 08/30/02 Date Analyzed: 08/30/02

## RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

0 1 10	~,	~	37.1.1	
Sample ID	<u>Chromium</u>	Copper	<u>Nickel</u>	<u>Zinc</u>
Laboratory ID				
		Ar Min - dir	rudibur <sup>48</sup> s	
M88856	0.17	0.21	0.14	0.10
208096-01		Kalin Markins	e dike dike	
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

## **ENVIRONMENTAL CHEMISTS**

Date of Report: 09/05/02 Date Received: 08/15/02

Project: Metro Self Monitor Grab, PO# M88856

# QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 208212-01 (Duplicate)

		te granificación		Relative	ed and market a	
	Reporting	Sample	Duplicat	e Percent	Acceptance	
Analyte	Units	Result	Result	Difference	Criteria	
Chromium	mg/L (ppm)	0.27	0.31	14	0-20	
Copper	mg/L (ppm)	0.17	0.17	0	0-20	
Nickel	mg/L (ppm)	0.14	0.16	13	0-20	
Zinc	mg/L (ppm)	< 0.05	< 0.05	nm	0-20	

Laboratory Code: 208212-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recovery	y Acceptance
Analyte	Units	Level	Result	MS	Criteria
Chromium	mg/L (ppm)	2	0.27	84	80-120
Copper	mg/L (ppm)	2	0.17	78	80-120
Nickel	mg/L (ppm)	4	0.14	81	80-120
Zinc	mg/L (ppm)	2	< 0.05	89	80-120

Laboratory Code: Laboratory Control Sample

Maria San Albert	Reporting	Spike %	Recov	ery % Recov	very Accepta	nce RPD
Analyte	Units	Level	LCS	LCSI	O Criter	ia (Limit 20)
Chromium	mg/L (ppm)	2	91	88	80-12	0 3
Copper	mg/L (ppm)	2	86	88	80-12	0 $2$
Nickel	mg/L (ppm)	4	88	86	80-12	0 2
Zinc	mg/L (ppm)	2	93	104	80-12	0 11

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 5, 2002

### DUPLICATE COPY

## INVOICE #02ACU0905-2

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor Grab, PO# M88856 - Results of testing requested by Gerry Thompson for material submitted on August 15, 2002.

FEDERAL TAX ID #(b) (6)

208096

SAMPLE CHAIN OF CUSTODY

ME 8/15/02 AI,

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$\sim$ $\Lambda$	SAMPLERS	Kistalure)		Page # of
Send Report TO ERACO Thompson	94		>	TURNAROUND TIME
11 10161	PROJECT N	IAME/NO.	PO#	☐ Standard (2 Weeks)
Company AUDSKAN Copper works		-1C - Tu	M88856	D RUSH
Address 628 S. Handred ST	METRO	Self monten	1480006	Rush charges authorized by:
		Graph	<u> </u>	
City, State, ZIP_SEASHE US 98134	REMARKS	V		SAMPLE DISPOSAL
City, State, ZIP 300000				☐ Dispose after 30 days
Phone # 206-382-8379 Fax # 206-382-4309		\	ĺ	☐ Return samples
Phone #Fax #Fax #		\		☐ Will call with instructions

										ANA	LYS	ES R	EQU	EST	ED			
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	OC, Cynizal					Notes	
m88856	6l	8/5/02	10:00	Hro	l							$\mathcal{I}$						
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Friedman & Bruye	a, Inc.
3012 16th Avenue	West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMSVCOCYCOC DOC

AGNATURE	PRINT NAME	COMPANY	DATE	TIME
Refuguished W.	GENACO Thompson	Ach	8/1862	HOSA
Received by:	Laura Hooper	F/B. Inc.	1	1
Relinquished by				
Received by:				

### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 5, 2002

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on August 15, 2002 from your Metro Self Monitor Grab, PO# M88856 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures ACU0904R.DOC